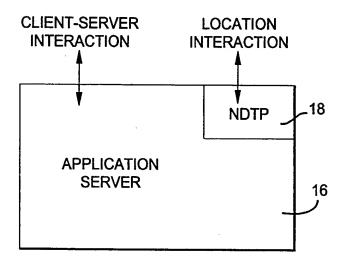


## FIG. 2



## FIG. 3

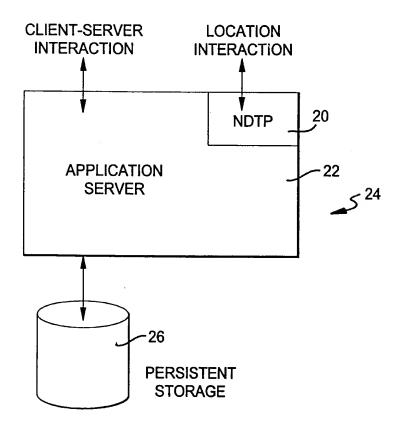
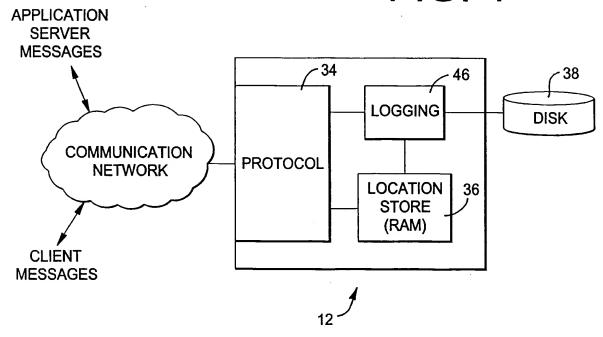
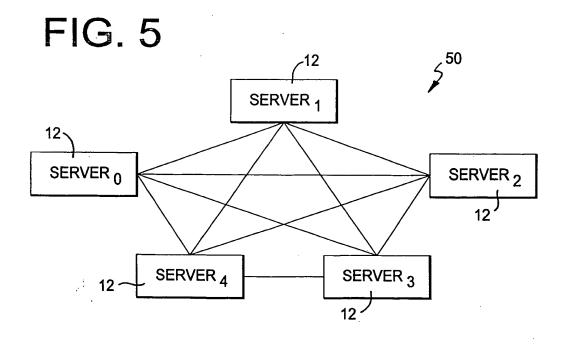
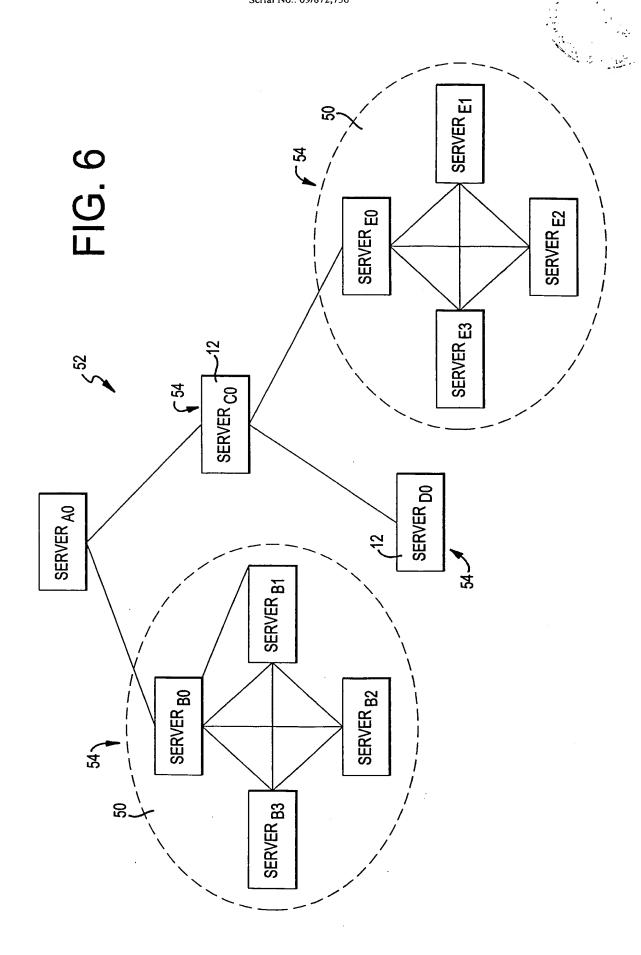
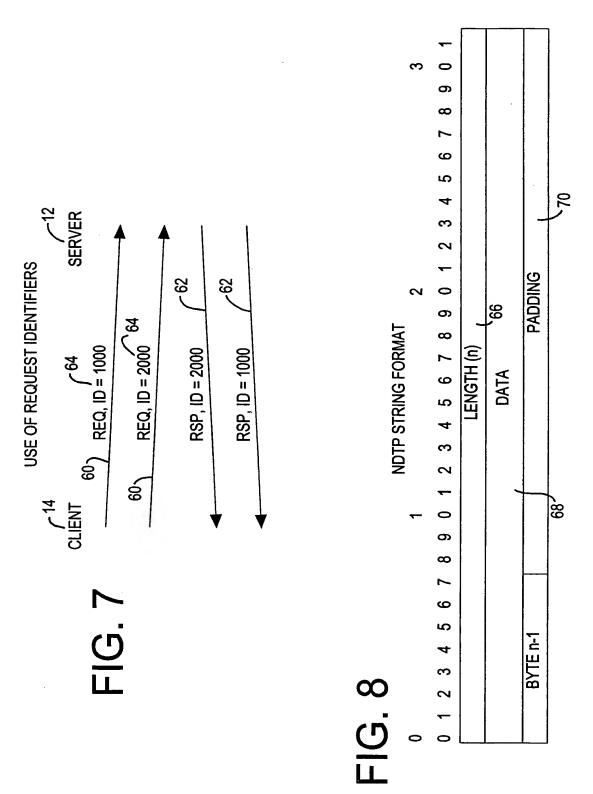


FIG. 4









| J. Overton et al.      |
|------------------------|
| Serial No.: 09/872,736 |

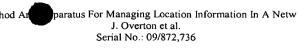
| FIG. 9          |          |     |   |   |    |       | 닐    | 든  | 띯      | F    | NDTP_GET FORMAT | 1AT                                |         |          |    |   |   |   |   |       |   |        |   |              |             |
|-----------------|----------|-----|---|---|----|-------|------|----|--------|------|-----------------|------------------------------------|---------|----------|----|---|---|---|---|-------|---|--------|---|--------------|-------------|
| 0               |          | 772 | 2   |   | _  |       |      | 1  | ĺ      |      |                 |                                    |         | 7        |    |   |   |   |   |       |   |        | က |              |             |
| 0 1 2 3 4 5 6   | 5 6      | _   | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 | 6 | 0  | _     | α    | 4  | ,<br>, | 5    | 7               | 00                                 | 0       | 0        | ~  | 7 | က | 4 | 5 | <br>છ | ~ | თ<br>~ | 0 | <del>-</del> |             |
| NDTP_G          | ET (2)   |     |   |   |    |       |      |    |        |      |                 |                                    | RES     | RESERVED |    |   |   |   |   |       |   |        |   |              | <u> </u>    |
|                 |          |     |   |   |    |       |      | PR | 덚      | )ES  | 9               | NDTP REQUEST IDENTIFIER            | 쁘       | 2        |    |   |   |   |   |       |   |        |   |              | Γ           |
|                 |          |     |   |   | ST | N. N. | 3 AF | Æ  | 三      | NGT  | H               | STRING AREA LENGTH (ROUND4(n) + 4) | Š       | Ē        | +4 |   |   | i | : |       |   |        | ! |              | Γ           |
|                 |          |     |   |   |    |       | 9    | E  | 崖      | IR L | EN              | IDENTIFIER LENGTH (n)              | Ξ       |          |    |   |   |   |   |       |   |        |   |              | <del></del> |
|                 |          |     |   |   |    |       |      | 걸  | K      | FE   | R D             | IDENTIFIER DATA                    |         |          | 74 |   |   |   |   |       |   |        |   |              |             |
| IDENTIFIER BYTE | 3YTE n-1 |     |   |   |    |       |      |    |        |      |                 | PA                                 | PADDING | 9        |    |   |   |   |   |       |   |        |   |              | т           |
|                 |          |     |   |   | :  |       |      |    |        |      |                 |                                    |         | !<br>:   |    |   |   |   | : |       |   |        |   |              | 1           |

|                     |            |                            |              | · ·                     | r  |                       | I              | <del></del>        | ·          | Γ.             |
|---------------------|------------|----------------------------|--------------|-------------------------|--|-----------------------|----------------|--------------------|------------|----------------|
|                     |            | ~                          |              |                         |  |                       |                |                    |            |                |
|                     | က          | 67)89012345678901234567890 |              |                         |  |                       |                |                    |            |                |
|                     |            | 0                          | !            |                         |  |                       |                |                    |            |                |
|                     |            | ∞                          |              |                         |  |                       |                |                    |            |                |
|                     |            | 7                          |              |                         |  |                       |                |                    |            |                |
|                     |            | 9                          |              |                         |  |                       |                |                    |            |                |
|                     |            | ည                          | l            |                         | 4  |                       |                |                    |            |                |
|                     |            | 4                          |              |                         | STRING AREA LENGTH (ROUND4(n0) + 4 + + ROUND4(nm) + 4) |                       |                |                    |            |                |
|                     |            | က                          |              |                         | <del>2</del>   |                       |                |                    |            |                |
|                     |            | 7                          |              |                         | 2  |                       | 201            |                    |            | }              |
|                     |            | _                          | RESERVED     |                         | [S   |                       |                |                    |            | ءا             |
|                     | 7          | 0                          | 贸            | æ                       | +  |                       |                | Oğ.                |            | 9              |
| <u> -</u>           |            | တ                          | E S          | NDTP REQUEST IDENTIFIER | +  | <u>6</u>              |                | Padding0           |            | PADDINGM       |
| ₩                   |            | Φ                          |              |                         | +4   | H.                    | ≰              | Pa                 | _          | A              |
| Ë                   |            | 7                          |              | ₽                       | [ <u>은</u>   | S                     | P              |                    | 8          |                |
| S                   |            | 9                          |              | ESI                     | <u>8</u>   | 回                     | <u></u>        |                    | ATI(       |                |
| اک                  |            | 5                          |              | 18                      | \  | <u>ह</u>              | Location0 DATA |                    | LOCATION 1 |                |
| NDTP_GET_RSP FORMAT |            | 4                          |              | 문                       | (S)  | Location0 LENGTH (n0) | ق              |                    |            |                |
| اھ                  |            | က                          |              | 문                       | 王  | Ž                     |                |                    |            |                |
| ē                   |            | 7                          |              | 불                       | 9  |                       |                |                    |            |                |
|                     |            | ~-                         |              |                         |  |                       |                |                    |            |                |
|                     | ~          | 0                          |              |                         | 贸  |                       |                |                    | :          |                |
|                     |            | တ                          |              |                         | S A  |                       |                |                    |            |                |
|                     | <b>(</b> 0 | 8                          |              |                         | Ž  |                       |                |                    |            | L              |
|                     | 9-         | ~                          |              |                         | ST   |                       |                |                    |            | _              |
|                     |            | 9                          | (6)          |                         |  |                       |                | _                  |            | 1              |
|                     |            | 2                          | SS.          |                         |  |                       |                | ċ                  |            | ᄩ              |
|                     |            | 4                          | -            |                         |  |                       |                | Ϋ́                 | ٠.         | m<br>B         |
| <b>—</b>            |            | က                          | ပြည်         |                         |  |                       |                | 0 B                |            | S<br>O         |
|                     |            | 7                          | NDTP_GET_RSP |                         |  |                       |                | ation              |            | Ϋ́             |
| (C)                 |            | 0 1 2 3 4 5                | 뉟            |                         |  |                       |                | Location0 BYTE n-1 |            | LOCATIONM BYTE |
| _                   | 0          | 0                          | <u> </u>     |                         |  | <u></u>               |                |                    |            |                |

## FIG. 11

| NDTP_PUT FORMAT | . 7 <sup>80</sup> 1 2 | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | RESERVED     | NDTP REQUEST IDENTIFIER | STRING AREA LENGTH (ROUND4(n) + 4 + ROUND4(m) + 4) | IDENTIFIER LENGTH (n) | IDENTIFIER DATA 82 | 1-1 IDENTIFIER PADDING | LOCATION LENGTH (m) | LOCATION DATA 84 | NOTION BADDING     |
|-----------------|-----------------------|---|--------------|-------------------------|--|-----------------------|--------------------|------------------------|---------------------|------------------|--------------------|
| <u>-</u>        | 0                     | 0 1 2 3 4 5                                       | NDTP_PUT (4) |                         |  |                       |                    | LOCATION BYTE          |                     |                  | 1 OCATION BYTE m.1 |

| FIG. 12          |                          |   |   |   |     |          |     |     |                         |        |        |   |          |   |   |   |   |   |   |   |   |   | ] |
|------------------|--------------------------|---|---|---|-----|----------|-----|-----|-------------------------|--------|--------|---|----------|---|---|---|---|---|---|---|---|---|---|
| ı                | 98.                      |   | _ | Z | DTF | <u>_</u> | 5   | RSF | NDTP_PUT_RSP FORMAT     | R<br>M | ΔT     | 7 |          |   |   |   |   |   |   |   |   | က |   |
|                  | 789012345678901234567890 | 6 | 0 | _ | 7   | က        | 4   | 2   | 3 7                     | ∞ .    | တ      | 0 | _        | 7 | က | 4 | 2 | 9 | 7 | œ | 6 | 7 |   |
| NDTP_PUT_RSP (5) |                          |   |   |   |     |          |     |     |                         |        | E E    | 照 | RESERVED |   |   |   |   |   |   |   |   |   | F |
|                  |                          |   |   | _ |     | PR       | В   | ES  | NDTP REQUEST IDENTIFIER | EN I   | 崖      | 2 |          |   |   |   |   |   |   |   |   |   | Ι |
|                  |                          |   |   |   | S   | Ž        | BAB | ZEA | STRING AREA LENGTH (0   | 5      | ]<br>H | _ |          |   |   |   |   |   |   |   |   |   |   |

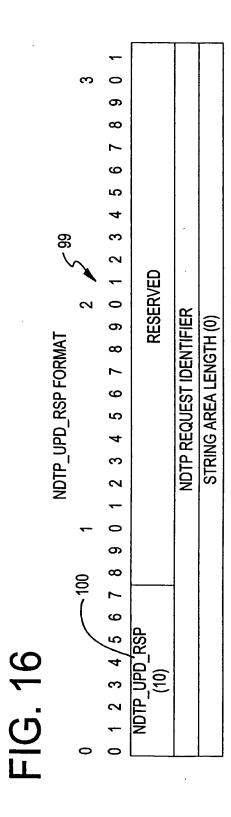


| 8 1 NDTP_DEL FORMAT 2 3 | 7890123456789012345678901 | RESERVED     | NDTP REQUEST IDENTIFIER | STRING AREA LENGTH (ROUND4(n) + 4 + ROUND4(m) + 4) | IDENTIFIER LENGTH (n) | IDENTIFIER DATA 90 | IDENTIFIER PADDING | LOCATION LENGTH (m) | LOCATION DATA 92 | LOCATION PADDING  |
|-------------------------|---------------------------|--------------|-------------------------|--|-----------------------|--------------------|--------------------|---------------------|------------------|-------------------|
| FIG. 13                 | 0 1 2 3 4 5 6 \ 7         | NDTP_DEL (6) |                         |  |                       |                    | LOCATION BYTE n-1  |                     |                  | LOCATION BYTE m-1 |

|                            | ന  | 0                       |            |                         |                        |
|----------------------------|----|-------------------------|------------|-------------------------|------------------------|
|                            |    | 0)                      |            |                         |                        |
|                            |    | 78901234567890123456789 |            |                         |                        |
|                            |    | 7                       |            |                         |                        |
|                            |    | 9                       |            |                         |                        |
| •                          |    | Ŋ                       |            |                         |                        |
|                            |    | 4                       |            | :                       |                        |
|                            |    | က                       |            |                         |                        |
|                            |    | 2                       |            |                         |                        |
|                            |    | _                       | VEC        |                         |                        |
|                            | 7  | 0                       | RESERVED   | œ                       |                        |
| -                          |    | တ                       | ZES        | 쁜                       | 9                      |
| MA<br>MA                   |    | œ                       | <u> </u>   | 툳                       | 忘                      |
| NDTP_DEL_RSP FORMAT        |    | 7                       |            | NDTP REQUEST IDENTIFIER | STRING AREA LENGTH (0) |
| 96                         |    | 9                       |            | ST                      | Y.                     |
| 84                         | 1  | 2                       |            |                         | 2                      |
| 띡                          |    | 4                       |            | 鬥                       | 2                      |
| ַר<br>הַ                   |    | က                       |            | 교                       | 2                      |
| 5                          |    | 7                       |            | 9                       | တ                      |
| -                          |    | <del></del>             |            |                         |                        |
|                            | ~  | 0                       |            |                         |                        |
|                            |    | တ                       |            |                         |                        |
|                            |    | ∞                       |            |                         |                        |
|                            | 92 | ^                       |            |                         |                        |
|                            |    | 9 9                     | (7)        |                         |                        |
|                            |    | 2                       | SP         |                         |                        |
| 4                          |    | 4                       | EL_RSP (7) |                         |                        |
| <del>_</del>               |    | က                       | DE         |                         |                        |
|                            |    | 2                       | VDTP_      |                         |                        |
|                            |    | <b>—</b>                | Q.         |                         |                        |
| $\underline{\underline{}}$ | 0  | 0                       |            | L_                      |                        |
| FIG                        |    |                         |            |                         |                        |
|                            |    |                         |            |                         |                        |

| Method Ar paratus For Managing Location Information In A Netwo |   |
|--|---|
| J. Overton et al.  | , |
| Serial No.: 09/872,736   |   |
|  |   |

| IDEN I |
|--------|
|        |

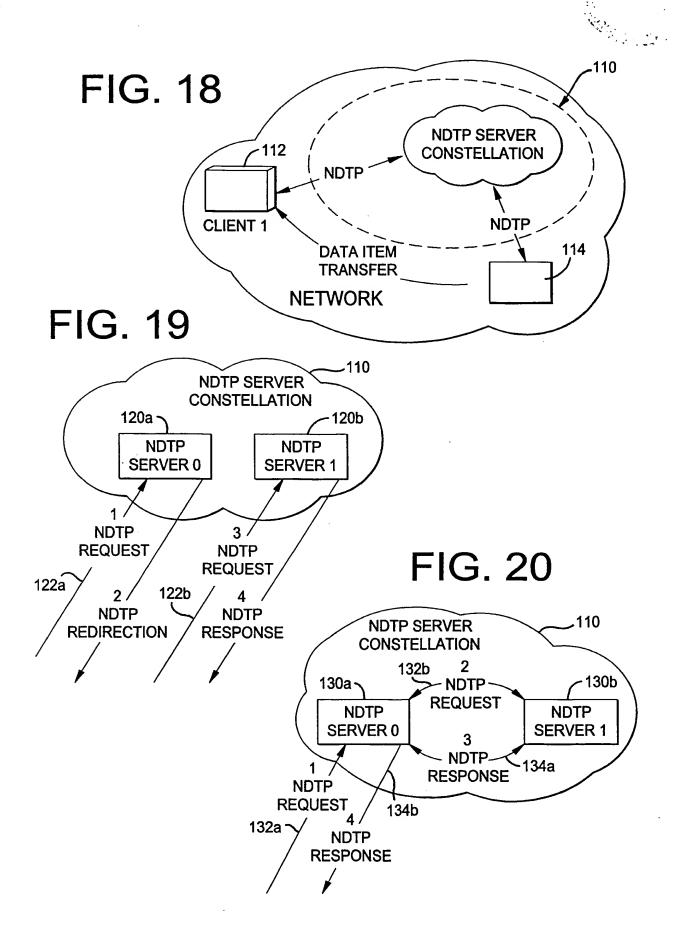


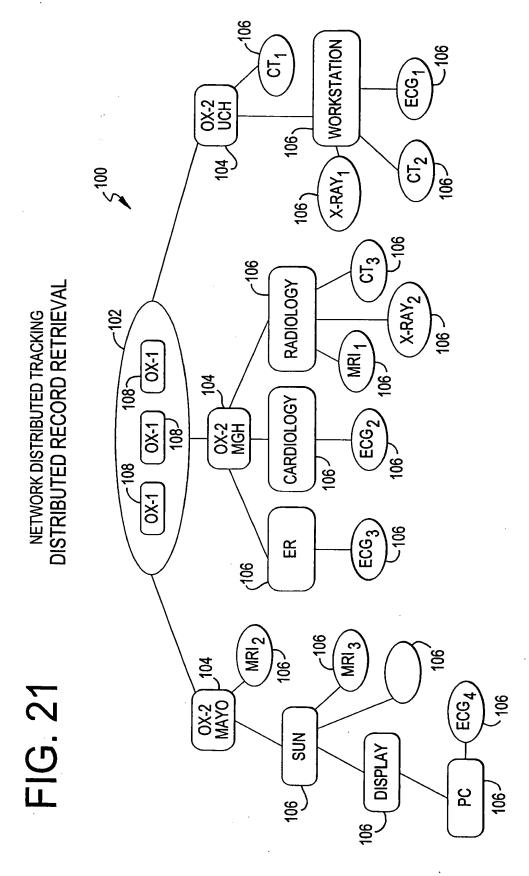
# FIG. 17A

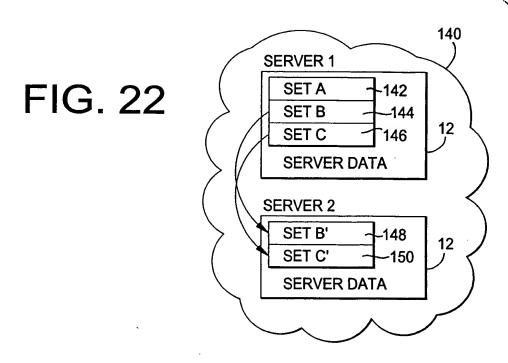
|   |           |                  |                         |  | <b>₽</b>  | 101                          |                       |                |                  |   |                |   |   |                             |   |                                     |
|---|-----------|------------------|-------------------------|--|---|------------------------------|-----------------------|----------------|------------------|---|----------------|---|---|-----------------------------|---|-------------------------------------|
| က | 0         |                  |                         |  |   |                              |                       |                |                  |   |                |   |   |                             |   |                                     |
|   | တ         |                  |                         |  |   |                              |                       |                |                  |   |                |   |   |                             |   |                                     |
|   | ∞         |                  |                         |  |   |                              |                       |                |                  |   |                |   | ļ |                             |   |                                     |
|   | 7         |                  |                         | :  |   |                              |                       |                |                  |   |                |   |   |                             |   |                                     |
|   | 9         |                  |                         |  | +(  |                              |                       |                |                  |   |                | + 4   |   |                             |   |                                     |
|   | 5         |                  |                         | <u>-</u>   | 틸   |                              |                       |                |                  |   |                | uu)   |   |                             |   |                                     |
|   | 4         |                  |                         | 7+(  | \$  |                              |                       |                |                  |   |                | <b>D</b> 4  |   |                             |   |                                     |
|   | <b>м</b>  |                  |                         | EU)  | 5   |                              |                       |                |                  |   |                | S   |   |                             |   |                                     |
|   | _         | ا ۾              |                         | \$   | 4   |                              |                       |                |                  |   |                | +<br>R  |   |                             |   |                                     |
| 7 |           | RVE              |                         | 5  | +   | 0                            |                       | 0              |                  |   |                |   |   | _                           |   |                                     |
|   | 6         | RESERVED         | ER                      | +<br>  \   | +4  | ) H                          | ≰                     | N N            |                  |   |                | <b>+</b> 4  |   | AT/                         |   |                                     |
|   | 8 9 0 1 2 | 품                |                         | +  | <u>6</u>  | <u>6</u> 1                   | M                     | PADDING 0      | 7                |   |                | <u>6</u>  |   | 1                           |   | PADDING                             |
|   | 7         |                  |                         | +4   | <u>₽</u>  | 凹                            | RLO                   | <u>a</u>       | ×<br>P           |   |                | D4(   |   | IST.                        |   | <u>a</u>                            |
|   | 9         |                  | NDTP REQUEST IDENTIFIER | 5  |   | NDTP SERVER URLO LENGTH (n0) | NDTP SERVER URLO DATA |                | NDTP SERVER URL1 |   |                | 5   |   | REPLICATION SET LIST 1 DATA |   |                                     |
|   | 2         |                  | E E                     | <u>4</u>   | R<br>R  | RU                           | Ş                     |                | Ä                | : |                | (R  | İ | S                           | : |                                     |
|   | 4         |                  | Ä                       | S  | 픮   | ₹<br>≪                       | SEF                   |                | TP (             |   |                | HE  |   | 5<br>1                      |   |                                     |
|   | رى<br>ا   |                  | TPF                     | 8  | N.  | S                            | TP                    |                | 2                |   |                | EN  |   | <u>ರ</u>                    |   |                                     |
|   | 7         |                  | 9                       | E<br>E   | 0   | 면                            | 닐                     |                |                  |   |                | 7   |   | EP.                         |   |                                     |
|   | -         |                  |                         | Ä  | SI<br>SI  | Z                            |                       |                |                  |   | C              | IS!   |   | œ                           |   |                                     |
| ~ | 0         |                  |                         | STL  | <u> </u>  |                              |                       |                |                  |   | <b>PADDING</b> | ION SET LIST 1 LENGTH (ROUND4(n0) + 4 + + ROUND4(nm) + 4) |   |                             |   |                                     |
|   | တ         |                  |                         | 7  | S   |                              |                       |                |                  |   | ADI            | SN  |   |                             |   |                                     |
|   | ∞         |                  |                         | HASH LIST LENGTH (ROUND4(n0) + 4 + + ROUND4(nm) + 4) | 100   |                              |                       |                |                  |   | <u> </u>       |   |   |                             |   | E                                   |
|   | _         |                  |                         | T  | 걸   |                              |                       |                |                  |   |                | 걸   |   |                             |   | ST                                  |
|   | 9         | B (8             |                         |  | REPLICATION SET LIST 0 LENGTH (ROUND4(n0) + 4 + + ROUND4(nm) + 4) |                              |                       | -              |                  |   | 7              | REPLICAT  |   |                             |   |                                     |
|   | . 5       | RS               |                         |  |   |                              |                       | URLO BYTE nm-1 |                  |   | URLm BYTE nm-1 | ا ت   |   |                             |   | 1 SE<br>1 − 1                       |
|   | 4         | 였.               |                         |  |   |                              |                       | 삗              |                  |   | χŢ             |   |   |                             |   | CATION SE<br>BYTE nm-1              |
|   |           | ۳.<br>الج        |                         |  |   |                              |                       | 0 B            |                  |   | E.             |   | l |                             |   | FA]                                 |
|   | 123456    | NDTP_RDR_RSP (8) |                         |  |   |                              |                       | 뽕              |                  |   | 띪              |   |   |                             |   | REPLICATION SET LIST m<br>BYTE nm-1 |
| 0 |           |                  |                         |  |   |                              |                       |                |                  |   |                |   |   |                             |   | 22                                  |
|   |           |                  |                         |  |   |                              |                       |                |                  |   |                |   |   | ,                           |   |                                     |

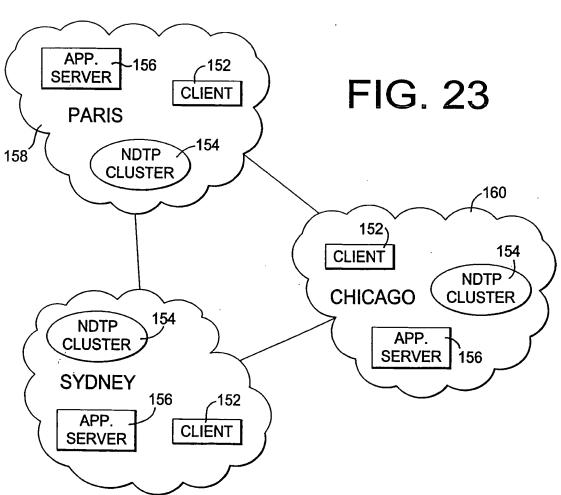
| r   | Y      | • |
|-----|--------|---|
| 717 | Y<br>- |   |
| (   |        | • |
| L   | 1      | _ |

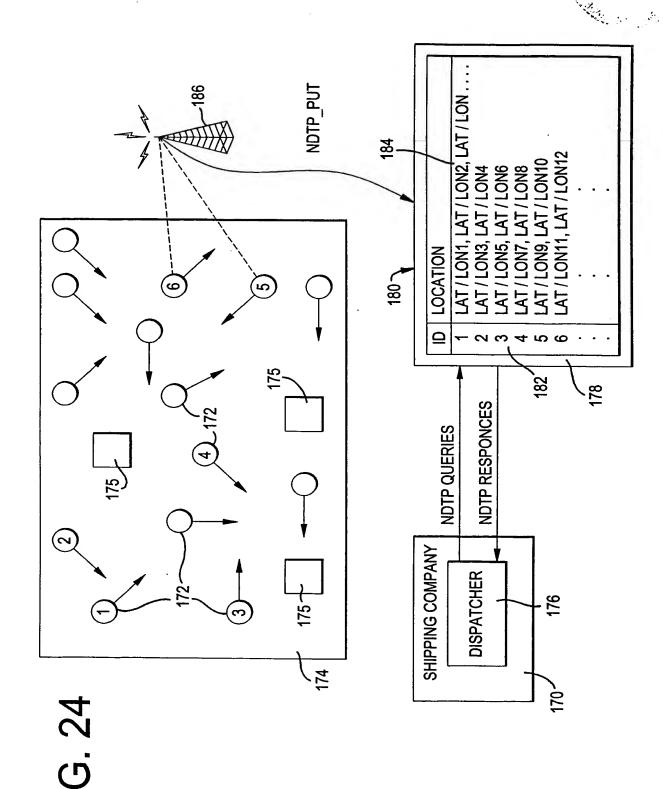
|      |   | <del>-</del>                                      |              |                         |                                    |  |                                      |                          |
|------|---|---|--------------|-------------------------|------------------------------------|--|--------------------------------------|--------------------------|
|      | က | 0   |              |                         |                                    |  | :                                    |                          |
|      |   | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 |              |                         |                                    |  |                                      |                          |
|      |   | œ   |              |                         |                                    |  |                                      |                          |
|      |   | 7   |              |                         |                                    |  |                                      |                          |
|      |   | 9   |              |                         |                                    |  |                                      |                          |
|      |   | 2   |              |                         |                                    |  |                                      |                          |
|      |   | 4   |              |                         |                                    |  |                                      |                          |
|      |   | က   |              |                         |                                    |  |                                      |                          |
|      | * | 2   | _            |                         | :                                  | (E)  |                                      |                          |
| 1037 |   | <del>-</del>                                      | RESERVED     |                         | +4                                 | 王  | Į Į                                  | ပြာ                      |
|      | ~ | 0   | ER           | <u>م</u>                | Ξ                                  |  | ۵ ر                                  | PADDING                  |
|      |   | တ   | ES           | 문                       | \ <u>\$</u>                        |  | cţio                                 | AD                       |
|      |   | œ   | الا          | NDTP REQUEST IDENTIFIER | STRING AREA LENGTH (ROUND4(n) + 4) | 읋  | SERIALIZED NDTPRedirectFunction DATA | 10                       |
|      |   | 7   |              | 띨                       | 8                                  | Ξ  | ect                                  |                          |
|      |   | 9   |              | ST                      | 三                                  | iec  | edii                                 |                          |
|      |   | 5   |              |                         | Ĕ                                  | Sed  | I PR                                 |                          |
|      |   | 4   |              | E E                     | AL.                                | Ē  | 9                                    |                          |
|      |   | က   |              | 욘                       | ARE                                | 2  | · 🖺                                  |                          |
|      |   | 7   |              | 2                       | စ္ခ                                |  | 71                                   |                          |
|      |   | _   |              |                         | IR                                 | A.   |                                      |                          |
|      | • | 0   |              |                         | လ                                  | SERIALIZED NDTPRedirectFunction LENGTH (n) | S                                    |                          |
|      |   | တ   |              |                         |                                    | တ  | !                                    |                          |
| •    |   | ∞   |              |                         |                                    |  |                                      |                          |
|      |   | 7   |              |                         |                                    |  |                                      |                          |
|      |   | 9   | (8)          |                         |                                    |  |                                      | -                        |
|      |   | ري<br>ا   | 3SP          |                         |                                    |  |                                      | 삗                        |
|      |   | 4   | R            |                         |                                    |  |                                      | N<br>B                   |
|      |   | 2 3 4 5   | NDTP_RDR_RSP |                         |                                    |  |                                      | <b>FUNCTION BYTE n-1</b> |
|      |   | 7   | TP.          |                         |                                    |  |                                      | 2                        |
|      |   | ~   | 닐            |                         |                                    |  |                                      | 금                        |
|      | 0 | 0   |              |                         |                                    |  |                                      |                          |



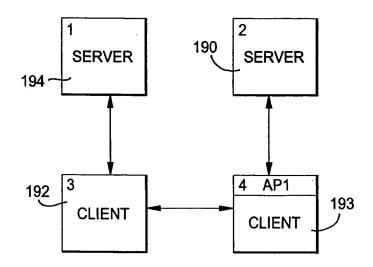








## FIG. 25



## FIG. 26

| 19 | 196           | 200   |
|----|---------------|---|
|    | IDENTIFIER    | LOCATION  |
|    | ALICE<br>BILL | 202204<br>PDA: 1, CELL: 1, COMPUTER: 0<br>CELL: 0, PDA: 1 |
|    | •             | •   |
|    | •             | •   |